

1. Sketch the rectangle. Then find the area.

a) base 14.1 m, height 5.25 m

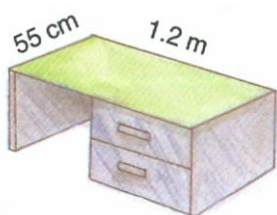
b) base 13.8 m, height 910 cm

c) base 45.1 cm, height 215 mm

d) base x , height $(x - 1)$

$A = LW$ $= (14.1)(5.25)$ $= 74.03 \text{ m}^2$	$A = LW$ $= (13.8)(9.1)$ $= 125.58 \text{ m}^2$	$A = LW$ $= (45.1)(21.5)$ $= 969.65 \text{ cm}^2$	$A = LW$ $= (x)(x - 1)$ $= x^2 - x \text{ units}^2$
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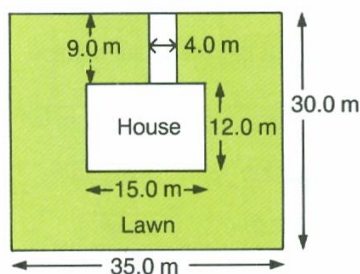
2. Betty plans to cover the top of her desk with plastic laminate. The laminate can be bought for \$12.50/m². Find the cost of covering the top of the desk.



$$\begin{aligned}
 A &= bh \\
 &= (1.2)(0.55) \\
 &= 0.66 \text{ m} \\
 0.66 \text{ m} \times \$12.50 &= \$8.25
 \end{aligned}$$

3. a) How much grass seed is needed to cover the lawn area? 1.5 kg of grass seed covers 10.0 m².

b) One bag of fertilizer covers 300 m². How many bags of fertilizer are needed?



$\text{Walkway} = lw$ $= (9)(4)$ $= 36$	$\text{House} = lw$ $= (15)(12)$ $= 180$	$\text{Big Rec.} = lw$ $= (30)(35)$ $= 1050$	$\text{Fertilizer} = \frac{834}{300}$ $= 2.78 \text{ m}$
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Total grass area = Big Rec. – Walkway – House = 1050 – 36 – 180 = 834 m ² Grass Seed = 1.5 x 83.4 = 125.1 kg.	You need 3 bags of fertilizer.
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4. Sketch the triangle. Then find the area.

a) base 7.2 m, height 3.0 m

b) base 9.5 cm, height 21 mm

c) base 86 cm, height 1.2 m

d) base 2x, height x + 2

$A = \frac{bh}{2}$ $A = \frac{(7.2)(3)}{2}$ $A = 10.8 \text{ m}^2$	$A = \frac{bh}{2}$ $A = \frac{(9.5)(2.1)}{2}$ $A = 9.98 \text{ cm}^2$	$A = \frac{bh}{2}$ $A = \frac{(0.86)(1.2)}{2}$ $A = 1.032 \text{ m}^2$	$A = \frac{bh}{2}$ $A = \frac{(2x)(x+2)}{2}$ $A = \frac{2x^2 + 4x}{2}$ $A = x^2 + 2x$
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5. Find the measure of the height.

a) of a triangle with area $x^2 + 3x$ and a base x.

	$A = \frac{bh}{2}$ $x^2 + 3x = \frac{(x)(h)}{2}$ $2(x^2 + 3x) = hx$ $2x^2 + 6x = hx$ $\frac{2x^2 + 6x}{x} = h$ $2x + 6 = h$
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